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person who attends to the cooking is also working in the mill, and has very little available time for the preparation of food for the family. Under these conditions the baking soda is added to beans and other foods in order to shorten the time of cooking, as the baking soda, when added to the water in which the beans are cooked, will cause the rapid softening of this food. There can be little doubt as to the greater or less destructive action of the soda on the vitamins of the beans under these conditions, although no direct experiments have been made on this point.

We see, therefore, that several factors seem to have played a rôle in the reduction of the vitamin content of the diet of the people of Spartanburg County during the last 20 years. Most prominent among these influences are: First, the reduction in the diet of vitamin-rich foods (fresh milk, eggs, and meats); second, the introduction of highly milled cereals; and, third, the use of baking soda, which was shown to have a destructive action on the vitamin content of bread. From the most careful and detailed investigation of the dietary conditions of certain communities in Spartanburg County it is evident that a large proportion of the people, especially in mill villages, live on a diet which is deficient from the point of view of its vitamin content. Wheat biscuits made from highly milled wheat flour and corn bread made with baking soda without the addition of buttermilk are the staple articles of diet among the people, and we have found families in which these foods represented about three-fourths of the entire diet. The fact that the above-mentioned influences, which have undoubtedly reduced the vitamin content of the diet, made themselves felt a relatively short time before the rapid increase in the pellagra incidence in this section of the country, furnishes considerable evidence in favor of the vitamin-deficiency theory of pellagra. It will be left for future investigations to prove or disprove the correctness of this assumption for other pellagrous sections of the South. The reported results emphasize the fact that, in studying the etiology of any disease which is assumed to be of dietary origin, it is essential to pay careful attention to what might appear on superficial examination as trivial details.

BIOLOGICAL PRODUCTS.

ESTABLISHMENTS LICENSED FOR THE PROPAGATION AND SALE OF VIRUSES, SERUMS, TOXINS, AND ANALOGOUS PRODUCTS.

The following table contains a list of the establishments holding licenses issued by the Treasury Department in accordance with the act of Congress approved July 1, 1902, entitled "An act to regulate the sale of viruses, serums, toxins, and analogous products in the District of Columbia, to regulate interstate traffic in said articles, and for other purposes."

The licenses granted to the following establishments for the products mentioned do not imply an indorsement of the claims made by the manufacturers for their respective preparations. The granting of a license means that inspections of the establishment concerned and laboratory examinations of samples of its products are made regularly to insure the observance of safe methods of manufacture, to ascertain freedom from contamination, and to determine the potency of diphtheria antitoxin, tetanus antitoxin, and vaccine virus, for which potency standards have been established.

AMERICAN ESTABLISHMENTS.

No. of license.	Name.	Products.
1	Parke, Davis & Co., Detroit, Mich.	Antidysenteric serum; antigenococcic serum; antimeningococcic serum; antirabic virus; antistreptococcic serum; antitubercle serum; cholera vaccine prophylactic; diphtheria antitoxin; erysipelas and prodigious toxin; normal horse serum; tetanus antitoxin; thyroidectomized horse serum; tuberculin B. E., tuberculin B. F., tuberculin old, tuberculin T. R.; vaccine virus; bacterial vaccines made from acne bacillus, acne diplococcus, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus; and modified bacterial derivatives prepared from colon bacillus, diphtheria bacillus, gonococcus, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
2	H. K. Mulford Co., Philadelphia, Pa.	Antianthrax serum; antidysenteric serum; antimelitensis serum; antimeningococcic serum; antipneumococcic serum; antirabic virus; antistreptococcic serum; diphtheria antitoxin; normal horse serum; pollen vaccine; tetanus antitoxin; tuberculin B. E., tuberculin B. F., tuberculin old, tuberculin T. R.; vaccine virus; bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, diphtheria bacillus, dysentery bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, micrococcus neoformans, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus; and sensitized bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.

AMERICAN ESTABLISHMENTS—Continued.

No. of license.	Name.	Products.
3	Dr. H. M. Alexander & Co., Marietta, Pa.	Antirabic virus; antityphoid vaccine; diphtheria antitoxin; normal horse serum; tetanus antitoxin; tubercle bacillus extract Dixon, tubercle bacillus suspension Dixon, tuberculin B. E., tuberculin B. F., tuberculin old, tuberculin T. R.; and vaccine virus.
6	The Slee Laboratories, Swiftwater, Pa..	Antistreptococcic serum; diphtheria antitoxin; normal horse serum; tetanus antitoxin; and vaccine virus.
8	The Cutter Laboratory, Berkeley, Cal..	Antimeningococcic serum; antipneumococcic serum; antirabic virus; antistreptococcic serum; diphtheria antitoxin; normal horse serum; tetanus antitoxin; tuberculin B. E., tuberculin B. F., tuberculin old, tuberculin T. R.; vaccine virus; and bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus; staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
14	Bureau of Laboratories, Health Department, New York City.	Antigonococcic serum; antimeningococcic serum; antipneumococcic serum; antirabic virus; antistreptococcic serum; diphtheria antitoxin; normal horse serum; tetanus antitoxin; old tuberculin; vaccine virus; and bacterial vaccines prepared from glanders bacillus, gonococcus, pertussis bacillus; pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.
16	National Vaccine and Antitoxin Institute, Washington, D. C.	Diphtheria antitoxin; normal horse serum; tetanus antitoxin; vaccine virus; and bacterial vaccines prepared from colon bacillus, Friedlander bacillus, gonococcus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
17	Lederle Antitoxin Laboratories, Pearl River, N. Y.	Antigonococcic serum; antimeningococcic serum; antipneumococcic serum; antirabic virus; antistreptococcic serum; diphtheria antitoxin; normal horse serum; pollen vaccine; tetanus antitoxin; vaccine virus; and bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
19	Serum Division, Memorial Institute for Infectious Diseases, 637 South Wood Street, Chicago, Ill.	Diphtheria antitoxin.
23	Bacterio - Therapeutic Laboratory, Asheville, N. C.	Watery extract of tubercle bacilli (von Ruck); modified tubercle bacillus derivative (von Ruck).

AMERICAN ESTABLISHMENTS—Continued.

No. of license.	Name.	Products.
30	Dr. G. H. Sherman, 419 St. Aubin Street, Detroit, Mich.	Bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, nonvirulent tubercle bacillus, and typhoid bacillus. Antirabic virus; and sensitized typhoid vaccine.
40	Hygienic Laboratory, California State Board of Health, Berkeley, Cal.	
43	The Abbott Laboratories, Abbott Alkaloidal Co., Chicago, Ill.	Bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.
46	New York Pasteur Institute, 361 West Twenty-third Street, New York City.	Antirabic virus.
49	Dr. W. T. McDougall, 707 Parallel Avenue, Kansas City, Kans.	Do.
50	St. Louis Pasteur Institute, 803 North Garrison Avenue, St. Louis, Mo.	Do.
51	The Upjohn Co., Kalamazoo, Mich.....	Bacterial vaccines prepared from colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
52	E. R. Squibb & Sons' Research and Biological Laboratories, New Brunswick, N. J.....	Antigonococcal serum; antimeningococcal serum; antirabic virus; antistreptococcal serum; diphtheria antitoxin; leucocyte extract; normal horse serum; tetanus antitoxin; and bacterial vaccines prepared from acne bacillus, colon bacillus, gonococcus, meningococcus, pertussis bacillus, pneumococcus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
53	Laboratory of Clinical Pathology, 1208 Wyandotte Street, Kansas City, Mo..	Antirabic virus.
54	Dr. James McI. Phillips, 2057 North High Street, Columbus, Ohio.	Do.
56	Eli Lilly & Co., Indianapolis, Ind.....	Antirabic virus, antistreptococcal serum, diphtheria antitoxin; normal horse serum; normal sheep serum; tetanus antitoxin; vaccine virus; and bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
57	American Biological Co., 600 F Street, Washington, D. C.	Bacterial vaccines prepared from acne bacillus, gonococcus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.

AMERICAN ESTABLISHMENTS—Continued.

No. of license.	Name.	Products.
58	Swan Myers Co., 219 North Senate Avenue, Indianapolis, Ind.	Bacterial vaccines prepared from colon bacillus, Friedlander bacillus, gonococcus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.
59	International Laboratories, 65 Irving Place, New York City.	Leucocyte extract (rabbit).
60	Greeley Laboratories, Inc., 655 Huntington Avenue, Boston, Mass.	Bacterial vaccines prepared from acne bacillus, colon bacillus, gonococcus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
61	Stafford Biological Laboratories, Smith Building, Detroit, Mich.	Bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.

FOREIGN ESTABLISHMENTS.

11	Institut Pasteur de Paris, Paris, France. Selling agents for the United States: Pasteur Laboratories of America, 336 West Eleventh Street, New York City.	Antidysenteric serum, antimeningococcic serum, anti-plague serum, antiplague vaccine, antistreptococcic serum, antitetanic serum, antivenomous serum, and diphtheria antitoxin.
12	Chemische Fabrik auf Actien, Berlin, Germany.	Antigonococcus vaccine, antistreptococcic serum, diphtheria antitoxin, and tuberculin.
18	Burroughs, Wellcome & Co., London, England.	Anticolon bacillus serum, antidysenteric serum, antigonococcic serum, antimeningococcic serum, anti-staphylococcic serum, antistreptococcic serum, antitetanic serum, antityphoid serum, diphtheria antitoxin, normal horse serum, tuberculins, and bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, influenza bacillus, gonococcus, micrococcus catarrhalis, micrococcus melitensis, pneumococcus, septus bacillus, staphylococci, streptococci, and typhoid bacillus.
21	Swiss Serum and Vaccine Institute, Berne, Switzerland.	Antidysenteric serum, antimeningococcic serum, anti-plague serum, antipneumonic serum, antistreptococcic serum, antitetanic serum, diphtheria antitoxin, tuberculins, and bacterial vaccines prepared from cholera vibrio, colon bacillus, plague bacillus, pneumococcus, staphylococci, streptococci, and typhoid bacillus.
22	Institut Bactériologique de Lyon, Lyons, France.	Antidiphtheric serum and normal goat serum.
24	Farbwerke, vormals Meister Lucius und Brüning, Höchst on Main, Germany.	Antidysenteric serum, antimeningococcic serum, antipneumonic serum, antistreptococcic serum, antitetanic serum, diphtheria antitoxin, tuberculins.

FOREIGN ESTABLISHMENTS—Continued.

No. of license.	Name.	Products.
27	Institut Pasteur de Lille, Lille, France. Selling agents for the United States: Pasteur Laboratories of America, 336 West Eleventh Street, New York City.	Antivenomous serum.
29	The Behringwerk, Marburg, Germany..	Antitetanic serum and tuberculin.
31	E. Merck, Darmstadt, Germany.....	Antimeningococcic serum, antipneumonic serum, antistreptococcic serum, diphtheria antitoxin, jequi- ritol serum, leucofermantin (antitryptic sheep serum), normal horse serum (liquid and dried), tuberculins, and bacterial vaccines prepared from colon bacillus, dysentery bacillus, gonococcus, pneumococcus, sta- phylococci, streptococci, and typhoid bacillus.
32	Kalle & Co., Bielebrich, Germany.....	Tuberculin (Rosenbach).
35	Dr. Carl Spengler, Davos-Platz, Swit- zerland.	I. K. immune blood.
38	Laboratorio di Terapia Sperimentale (Bruschettini), Genoa, Italy.	Tuberculosis serum vaccine and tuberculosis vaccine.
39	Pharmaceutisches Institut Ludwig Wilhelm Ganz, Oberursel bei Frank- fort a. M., Germany.	Antidysenteric serum.
48	Inoculation Department, St. Mary's Hospital, London, England.	Pollicine, and bacterial vaccines prepared from acne bacillus, gonococcus, influenza bacillus, pneumo- coccus, staphylococci, and streptococci.
55	Chemische Fabrik Güstrow, Güstrow i. M., Germany.	Staphylococcus vaccine.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended March 25, 1916, was received from Surg. Creel, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:	
Inspections of work under construction.....	238
Basements concreted (square feet, 41,220).....	45
Floors concreted (square feet, 5,375).....	5
Yards, passageways, etc. (square feet, 10,848).....	76
Total area of concrete laid (square feet).....	57,443
Class A, B, and C (fireproof) buildings:	
Inspections made.....	152
Roof and basement ventilators, etc., screened.....	785
Wire screening used (square feet).....	4,070
Openings around pipes, etc., closed with cement.....	1,880
Sidewalk lens lights replaced.....	1,000
Old buildings:	
Inspections made.....	403
Wooden floors removed.....	25
Yards and passageways, planking re- moved.....	9

RAT PROOFING—continued.

Old buildings—Continued.

New foundation walls installed (cubic feet).....	3,815
Concrete floors installed (square feet, 14,040).....	18
Basements concreted (square feet, 12,200).....	14
Yards and passageways, etc., concreted (square feet, 14,163).....	55
Total area concrete laid (square feet).....	40,403
Floors rat proofed with wire cloth (square feet, 4,158).....	4
Buildings razed.....	17
New garbage cans stamped approved.....	300
Nuisances abated.....	272
OPERATIONS ON THE WATER FRONT.	
Vessels inspected for rat guards.....	25
Reinspections made on vessels.....	24
New rat guards procured.....	13
Defective rat guards repaired.....	5
Vessels on which cargo was inspected.....	1